Applicant: Tsuchiya et al. Attorney's Docket No.: 14875-076001 / C1-005PCT-US

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CLAIMS

The current claims, as they stand after the Examiner's amendments provided in the Notice of Allowance of December 27, 2004, are listed below.

Listing of Claims:

1.-67. (Canceled)

- 68. (Previously presented) A method of screening for compounds that inhibit production of an inflammatory cytokine, comprising:
- (a) providing a sample comprising a TAK1 and a TAB1;
- (b) contacting a test compound with the TAK1 and the TAB1;
- (c) detecting binding between the TAK1 and the TAB1; and
- (d) selecting a compound that inhibits the binding; wherein the TAK1 of (a) is selected from the group consisting of
 - (i) a protein comprising amino acids 76 to 303 of SEQ ID NO:2; and
- (ii) a protein that binds to amino acids 437 to 504 of SEQ ID NO:4 and comprises an amino acid sequence encoded by a DNA sequence that hybridizes with the complement of nucleotides 408 to 1091 of SEQ ID NO:1 under washing conditions of 42°C, 5 x SSC, 0.1% sodium dodecyl sulfate, and 50% formamide; and wherein the TAB1 of (a) is selected from the group consisting of
 - (iii) a protein comprising amino acids 437 to 504 of SEQ ID NO:4; and
 - (iv) a protein that binds to amino acids 76 to 303 of SEQ ID NO:2 and comprises an amino acid sequence encoded by a DNA that hybridizes with the complement of nucleotides 1338 to 1541 of SEQ ID NO:3 under washing conditions of 42°C, 5 x SSC, 0.1% sodium dodecyl sulfate, and 50% formamide;

wherein the compound inhibits production of an inflammatory cytokine produced in response to lipopolysaccharide (LPS) or IL- 1α .

69. (Previously presented) The method of claim 68, wherein the TAK1 and/or the TAB1 is fused with a peptide.

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70. (Previously presented) The method of claim 68, wherein the TAK1 or the TAB1 is linked to a support.

- 71. (Previously presented) The method of claim 1, wherein a label is attached to the TAK1 or the TAB1 and the binding is detected by detecting or measuring the label.
- 72. (Previously presented) The method of claim 68, wherein the binding is detected by detecting or measuring the TAB1 bound to the TAK1 with a primary antibody against TAB1 or a primary antibody against a peptide fused with the TAB1.
- 73. (Previously presented) The method of claim 68, wherein the binding is detected by detecting or measuring the TAK1 bound to the TAB1 with a primary antibody against TAK1 or a primary antibody against a peptide fused with the TAK1.
- 74. (Previously presented) The method of claim 68, wherein the binding is detected by detecting or measuring the TAB1 bound to the TAK1 with a primary antibody against the TAB1 or a primary antibody against a peptide fused with TAB1, and a secondary antibody against the primary antibody.
- 75. (Previously presented) The method of claim 68, wherein the binding is detected by detecting or measuring the TAK1 bound to the TAB1 with a primary antibody against TAK1 or a primary antibody against a peptide fused with the TAK1, and a secondary antibody against the primary antibody.
- 76. (Previously presented) The method of claim 74, wherein the primary antibody or the secondary antibody is labeled with a radioisotope, enzyme, or fluorescent substance.
- 77. (Previously presented) The method of claim 68, wherein the TAK1 of (a) comprises amino acids 76 to 303 of SEQ ID NO:2.

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78. (Previously presented) The method of claim 68, wherein the TAK1 of (a) is a protein that binds to amino acids 437 to 504 of SEQ ID NO:4 and comprises an amino acid sequence encoded by a DNA that hybridizes with the complement of nucleotides 408 to 1091 of SEQ ID NO:1 under washing conditions of 42°C, 5 x SSC, 0.1% sodium dodecyl sulfate, and 50% formamide.

- 79. (Previously presented) The method of claim 68, wherein the TAK1 of (a) is a protein that binds to amino acids 437 to 504 of SEQ ID NO:4 and comprises an amino acid sequence that is encoded by a DNA that hybridizes with the complement of nucleotides 408 to 1091 of SEQ ID NO:1 under washing conditions of 60°C, 0.1 x SSC, and 0.1% sodium dodecyl sulfate.
- 80. (Previously presented) The method of claim 68, wherein the TAB1 of (a) comprises amino acids 437 to 504 of SEQ ID NO:4.
- 81. (Previously presented) The method of claim 68, wherein the TAB1 of (a) is a protein that binds to amino acids 76-303 of SEQ ID NO:2 and comprises an amino acid sequence encoded by a DNA that hybridizes with the complement of nucleotides 1338 to 1541 of SEQ ID NO:3 under washing conditions of 42°C, 5 x SSC, 0.1% sodium dodecyl sulfate, and 50% formamide.
- 82. (Previously presented) The method of claim 68, wherein the TAB1 of (a) is a protein that binds to amino acids 76-303 of SEQ ID NO:2 and comprises an amino acid sequence encoded by a DNA that hybridizes with the complement of nucleotides 1338 to 1541 of SEQ ID NO:3 under washing conditions of 60°C, 0.1 x SSC, and 0.1% sodium dodecyl sulfate.
- 83. (Previously presented) The method of claim 68, wherein the inflammatory cytokine is IL-1, TNF, IL-10, or IL-6.

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84. (Previously presented) The method of claim 68, wherein the inflammatory cytokine is IL-1.

- 85. (Previously presented) The method of claim 68, wherein the inflammatory cytokine is TNF.
- 86. (Previously presented) The method of claim 68, wherein the inflammatory cytokine is IL-6.
- 87. (Previously presented) The method of claim 68, wherein the inflammatory cytokine is IL-10.